

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) An image-processing device comprising:

a first reading module which reads a first signal in a main scanning direction of an image of a document;

a second reading module which reads a second signal in the main scanning direction of the image of the document;

a scanning module including a carriage which relatively moves the first and second reading modules and the image of the document to make the first and second modules scan the image of the document in its sub-scanning direction;

a scanning-control-condition selecting module which selects scanning control conditions of the scanning module in accordance with a plurality of read magnifications preset as read magnifications by the first and second reading modules to the document;

a first setting module which sets the scanning control conditions selected by the scanning-control-condition selecting module to a plurality of control conditions in accordance with the read magnification of the first reading module;

a second setting module which sets the scanning control conditions selected by the scanning-control-condition selecting module to a plurality of control conditions in accordance with a read magnification of the second reading module; and

an operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the first and second signals read by the first and second reading modules at any one of said plurality of read magnifications preset, wherein, the operating process by the operating module, computes the image data at a corresponding read magnification in accordance with the first and second signals read by the

~~first and second reading modules at any one of the preset read magnifications when set to a read magnification other than the preset read magnifications.~~

2. (Original) An image-processing device according to claim 1, wherein the operating module is provided with first and second operating modules which compute the image data values at a corresponding read magnification through enlargement and reduction operations in accordance with the first and second signals read by the first and second reading modules at any one of the above preset read magnifications when set to a read magnification other than the above preset read magnifications and a changing module for adaptively changing the first and second operating modules in accordance with a set read magnification.

3. (Original) An image-processing device according to claim 1, wherein the first and second setting modules set the scanning control conditions in accordance with light-receiving-sensitivity ratios of the first and second reading modules.

4. (Original) An image-processing device according to claim 1, wherein the first and second setting modules set the scanning conditions to a specific magnification and magnifications upper and lower than the specific magnification in order to prevent vibrations caused by the carriage scan.

5. (Currently Amended) An image-processing device comprising:

a first reading module which reads a monochrome signal in a main scanning direction of an image of a document;

a second reading module which reads a color signal in the main scanning direction of the image of the document;

~~a correcting module which aligns color signals read by the second reading module every line;~~

a scanning module including a carriage which relatively moves the first and second reading modules and the image of the document to make first and second reading modules scan the image of the document in its sub-scanning direction at a predetermined speed based

on predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as a plurality of read magnifications preset as read magnifications by the first and second reading modules, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second reading modules by changing the scanning speed of the carriage;

a correcting module which aligns every line the color signals read by the second reading module which is moved for scanning by the scanning module in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as the read magnifications preset as the read magnifications by the second reading module, delaying the color signals with a delay memory by a predetermined number of lines;

a scan-control-condition selecting module which selects scan-control conditions of the scanning module in accordance with a plurality of read magnifications preset as read magnifications of the document by the first and second reading modules;

a setting module which sets the scanning control conditions selected by the scan-control-condition selecting module to a plurality of control conditions in accordance with the correction of color signals to be corrected by the correcting module every line; and

an operating module which computes the image data of a corresponding read magnification through operations in accordance with the first and second signals read by the first and second reading modules at any one of the preset read magnifications when set to a read magnification other than the preset read magnifications.

6. (Currently Amended) An image-processing device comprising:

a reading module which reads color signals in a main scanning direction of an image of the document;

~~a correcting module which aligns the color signals read by the reading module every line;~~

a scanning module including a carriage which relatively moves the reading module and the image of the document to make the reading module ~~seans~~ scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as a plurality of read magnifications preset as read magnifications by the reading module, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading module by changing the scanning speed of the carriage;

a correcting module which aligns every line the color signals read by the reading module which is moved for scanning by the scanning module in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as said plurality of read magnifications preset as the read magnifications by the reading module, by delaying the color signals with a delay memory by a predetermined number of lines;

a scan-control-condition selecting module which selects scan-control conditions of the scanning module in accordance with a plurality of read magnifications preset as read magnifications of the document by the reading module;

a setting module which sets the scanning control conditions selected by the scanning-control-condition selecting module to a plurality of control conditions in accordance with the correction of color signals to be corrected by the correcting module every line; and

an operating module which computes the image data of a corresponding read magnification through operations in accordance with the color signals read by the reading modules at any one of the preset read magnifications when set to a read magnification other than the preset read magnifications.

7-20 (Canceled).

21. (New) An image-processing device comprising:

a first reading module having a first line sensor with a first light-receiving sensitivity and a reading optical system which guides an optical image of a document to the first line sensor, the first reading module reading first signals in a predetermined reading area in a main scanning direction of the image of the document;

a second reading module having a second line sensor with a second light-receiving sensitivity different from the first light-receiving sensitivity and a reading optical system which guides the optical image of the document to the second line sensor, the second reading module reading second signals in the same reading area as that of the first reading module in the main scanning direction of the image of the document;

a scanning module including a carriage which relatively moves the first and second reading modules and the image of the document to make the first and second reading modules scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with a plurality of read magnifications preset, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second reading modules by changing the scanning speed of the carriage;

a scanning-control-condition selecting module which selects the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning module in accordance with said plurality of read magnifications preset as the read magnifications by the first and second reading modules to the document;

a first setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications;

a second setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second reading module and the scanning speed of the carriage in accordance with the ratio of the light-

receiving sensitivities of the first and second reading modules with said plurality of read magnifications and said first plurality of control conditions as standards; and

an operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the first and second signals read by the first and second reading modules at any one of said plurality of read magnifications preset based on: said first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second reading module and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading modules with said plurality of read magnifications and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the first setting module and the second setting module, respectively, as the predetermined scanning control conditions selected by the scanning-control-condition selecting module.

22. (New) An image-processing device according to claim 21, wherein the operating module is provided with first and second operating modules which compute the image data values at a corresponding read magnification through enlargement and reduction operations in accordance with the first and second signals read by the first and second reading modules at any one of the above preset read magnifications when set to a read magnification other than the above preset read magnifications and a changing module for adaptively changing the first and second operating modules in accordance with a set read magnification.

23. (New) An image-processing device according to claim 21, wherein the first and second setting modules set the scanning conditions to a specific magnification and

magnifications upper and lower than the specific magnification in order to prevent vibrations caused by the carriage scan.

24. (New) An image-processing device comprising:

a first reading module having a first line sensor with a first light-receiving sensitivity, and a reading optical system which guides an optical image of a document to the first line sensor, the first reading module reading monochrome signals in a predetermined reading area in a main scanning direction of the image of the document;

a second reading module having a second line sensor with a second light-receiving sensitivity different from the first light-receiving sensitivity, and a reading optical system which guides the optical image of the document to the second line sensor, the second reading module reading color signals in the same reading area as that of the first reading module in the main scanning direction of the image of the document;

a scanning module including a carriage which relatively moves the first and second reading modules and the image of the document to make the first and second reading modules scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as a plurality of read magnifications preset as read magnifications by the first and second reading modules to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second reading modules by changing the scanning speed of the carriage;

a correcting module which aligns every line the color signals read by the second reading module which is moved for scanning by the scanning module in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as the read magnifications preset as the read magnifications by the second reading module, by delaying the color signals with a delay memory by a predetermined number of lines;

a scanning-control-condition selecting module which selects the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning

module in accordance with said plurality of read magnifications preset as the read magnifications by the first and second reading modules to the document;

a first setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications;

a second setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second reading module and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading modules with said plurality of read magnifications, the correction of the color signals corrected by the correcting module every line and said first plurality of control conditions as standards; and

an operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the monochrome signals and the color signals read by the first and second reading modules at any one of said plurality of read magnifications based on: said first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second reading module and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading modules with said plurality of read magnifications, the correction of the color signals corrected by the correcting module every line and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the first setting module and the second setting module,



respectively, as the predetermined scanning control conditions selected by the scanning-control-condition selecting module.

25. (New) An image-processing device comprising:

a reading module which reads color signals in a main scanning direction of an image of a document;

a scanning module including a carriage which relatively moves the reading module and the image of the document to make the reading module scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as a plurality of read magnifications preset as read magnifications by the reading module to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading module by changing the scanning speed of the carriage;

a correcting module which aligns every line the color signals read by the reading module which is moved for scanning by the scanning module in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as said plurality of read magnifications preset as the read magnifications by the reading module, by delaying the color signals with a delay memory by a predetermined number of lines;

a scanning-control-condition selecting module which selects the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning module in accordance with said plurality of read magnifications preset as the read magnifications by the reading module to the document;

a setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a plurality of control conditions as parameters including said plurality of read magnifications preset to the reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications and the correction of the color signals corrected by the correcting module every line; and

an operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the color signals read by the reading module at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading module set by the setting module, and the scanning speed of the carriage in accordance with said plurality of read magnifications and the correction of the color signals corrected by the correcting module every line, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting module as the predetermined scanning control conditions selected by the scanning-control-condition selecting module.

26. (New) An image-processing device comprising:

a reading module which reads signals in a main scanning direction of an image of a document;

a scanning module including a carriage which relatively moves the reading module and the image of the document to make the reading module scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with a plurality of read magnifications preset, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading module by changing the scanning speed of the carriage;

a scanning-control-condition selecting module which selects the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning module in accordance with said plurality of read magnifications preset as the read magnifications to the reading module to the document;

a setting module which sets the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning module selected by the scanning-control-condition selecting module to a plurality of control conditions as parameters including

said plurality of read magnifications preset to the reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications;

a first operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs an enlargement operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the signals read by the reading module at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications preset, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting module as the predetermined scanning control conditions selected by the scanning-control-condition selecting module;

a second operating module which, at least when set to a read magnification other than said plurality of read magnifications preset, performs a reduction operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the signals read by the reading module at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading module and the scanning speed of the carriage in accordance with said plurality of read magnifications, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting module as the predetermined scanning control conditions selected by the scanning-control-condition selecting module; and

a changing module which adaptively changes the first and second operating modules in accordance with a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction.

27. (New) An image-processing device according to claim 26, wherein the setting module sets the scanning-control conditions to a specific magnification and magnifications upper and

lower than the specific magnification in order to prevent vibrations caused by the carriage scanning.

28. (New) An image-processing device comprising:

first reading means having a first line sensor with a first light-receiving sensitivity, and a reading optical system which guides an optical image of a document to the first line sensor, the first reading means reading first signals in a predetermined reading area in a main scanning direction of the image of the document;

second reading means having a second line sensor with a second light-receiving sensitivity different from the first light-receiving sensitivity, and a reading optical system which guides the optical image of the document to the second line sensor, the second reading means reading second signals in the same reading area as that of the first reading means in the main scanning direction of the image of the document;

scanning means including a carriage which relatively moves the first and second reading means and the image of the document to make the first and second reading means scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with a plurality of read magnifications preset, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second reading means by changing the scanning speed of the carriage;

scanning-control-condition selecting means for selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the first and second reading means to the document;

first setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-control-condition selecting means to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications;

second setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-

control-condition selecting means to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second reading means and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading means with said plurality read magnifications and said first plurality of control conditions as standards; and

operating means for, at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the first and second signals read by the first and second reading means at any one of said plurality of read magnifications preset based on: said first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second reading means and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading means with said plurality of read magnifications and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the first setting means and the second setting means, respectively, as the predetermined scanning control conditions selected by the scanning-control-condition selecting means.

29. (New) An image-processing device according to claim 28, wherein the operation means is provided with first and second operation means for computing the image data at a corresponding read magnification through enlargement and reduction operations in accordance with the first and second signals read by the first and second reading means at any one of the preset read magnifications when set to a read magnification other than the preset read magnifications and change means for adaptively changing the first and second operation means in accordance with a set read magnification.

30. (New) An image-processing device according to claim 28, wherein the first and second setting means set the scanning control conditions to a specific magnification and magnifications upper and lower than the specific magnification in order to prevent vibrations caused by the carriage scanning.

31. (New) An image-processing device comprising:

first reading means having a first line sensor with a first light-receiving sensitivity, and a reading optical system which guides an optical image of a document to the first line sensor, the first reading means reading monochrome signals in a predetermined reading area in a main scanning direction of the image of the document;

second reading means having a second line sensor with a second light-receiving sensitivity different from the first light-receiving sensitivity, and a reading optical system which guides the optical image of the document to the second line sensor, the second reading means reading color signals in the same reading area as that of the first reading means in the main scanning direction of the image of the document;

scanning means including a carriage which relatively moves the first and second reading means and the image of the document to make the first and second reading means scan the image of the document in its sub-scanning direction based on predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as a plurality of read magnifications preset as read magnifications by the first and second reading means to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second reading means by changing the scanning speed of the carriage;

correcting means for aligning every line color signals read by the second reading means which is moved for scanning by the scanning means in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as said plurality of read magnifications preset as the read magnifications by the second reading means, by means of a delay memory which delays the color signals by a predetermined line;

scanning-control-condition selecting means for selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in

accordance with said plurality of read magnifications preset as the read magnifications by the first and second reading means to the document;

first setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-control-condition selecting means to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications;

second setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-control-condition selecting means to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second reading means and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading means with said plurality of read magnifications, the correction of the color signals corrected by the correcting means and said first plurality of control conditions as standards; and

operating means for, at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the first and second signals read by the first and second reading means at any one of said plurality of read magnifications preset based on: said first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second reading means and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second reading means with said plurality of read magnifications preset, the correction of the color signals corrected by the correcting means every line and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the first

setting means and the second setting means, respectively, as the predetermined scanning control conditions selected by the scanning-control-condition selecting means.

32. (New) An image-processing device comprising:

reading means for reading color signals in a main scanning direction of an image of a document;

scanning means including a carriage which relatively moves the reading means and the image of the document to make the reading means scan the image of the document in its sub-scanning direction based on predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as a plurality of read magnifications preset as read magnifications by the reading means to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading means by changing the scanning speed of the carriage;

correcting means for aligning every line color signals read by the reading means which is moved for scanning by the scanning means in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as said plurality of read magnifications preset as the read magnifications by the reading means, by means of a delay memory which delays the color signals by a predetermined line;

scanning-control-condition selecting means for selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the reading means to the document;

setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-control-condition selecting means to a plurality of control conditions as parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications and the correction of the color signals corrected by the correcting means; and

operating means for, at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having



a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the color signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications and the correction of the color signals corrected by the correcting means every line, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting means as the predetermined scanning control conditions selected by the scanning-control-condition selecting means.

33. (New) An image-processing device comprising:

reading means for reading signals in a main scanning direction of an image of a document;

scanning means including a carriage which relatively moves the reading means and the image of the document to make the reading means scan the image of the document in its sub-scanning direction at a predetermined speed based on predetermined scanning control conditions in accordance with a plurality of read magnifications preset, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading means by changing the scanning speed of the carriage;

scanning-control-condition selecting means for selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the reading means to the document;

setting means for setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means selected by the scanning-control-condition selecting means to a plurality of control conditions as parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications;

first operating means for, at least when set to a read magnification other than said plurality of read magnifications preset, performing an enlargement operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting means as the predetermined scanning control conditions selected by the scanning-control-condition selecting means;

second operating means for, at least when set to a read magnification other than said plurality of read magnifications preset, performing a reduction operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set by the setting means as the predetermined scanning control conditions selected by the scanning-control-condition selecting means; and

changing means for adaptively changing the first and second operating means in accordance with a corresponding read magnification other than said plurality of read magnifications preset.

34. (New) An image-processing device according to claim 33, wherein the setting means sets the scanning control conditions to a specific magnification and magnifications upper and lower than the specific magnification in order to prevent vibrations caused by the carriage scanning.

35. (New) A method for controlling an image-processing device provided with scanning means including a carriage which relatively moves first and second reading means for reading first and second signals in a same reading area in a main scanning direction of an image of a document and the image of the document to make the first and second reading means scan the image of the document in its sub-scanning direction at a predetermined speed, the first and second reading means having first and second line sensors respectively having a first light-receiving sensitivity, and a second light-receiving sensitivity different from the first light-receiving sensitivity, and a reading optical system which guides an optical image of a document to the first and second line sensors, the method comprising:

selecting predetermined scanning control conditions for relatively moving the first and second line sensors and the image of the document to make the first and second line sensors scan the image of the document in its sub-scanning direction by the scanning means in accordance with a plurality of read magnifications preset as read magnifications by the first and second line sensors to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second line sensors by changing the scanning speed of the carriage;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first line sensor and the scanning speed of the carriage in accordance with said plurality of read magnifications;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second line sensor and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second line sensors with said plurality of read magnifications and said first plurality of control conditions as standards; and

at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the first and second signals read by the first and second line sensors at any one of said plurality of read magnifications preset based on: said

first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first line sensor and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second line sensor and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second line sensors with said plurality of read magnifications and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set as the predetermined scanning control conditions selected.

36. (New) A method for controlling an image-processing device provided with scanning means including a carriage which relatively moves first and second reading means for reading monochrome signals and color signals in a same reading area in a main scanning direction of an image of a document and the image of the document to make the first and second reading means scan the image of the document in its sub-scanning direction at a predetermined speed, the first and second reading means having first and second line sensors respectively having a first light-receiving sensitivity, and a second light-receiving sensitivity different from the first light-receiving sensitivity, and a reading optical system which guides an optical image of a document to the first and second line sensors, the method comprising:

by the scanning means, relatively moving the first and second line sensors and the image of the document to make the first and second line sensors scan the image of the document in the sub-scanning direction based on predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as a plurality of read magnifications preset as read magnifications by the first and second line sensor to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the first and second line sensors by changing the scanning speed of the carriage;

aligning every line color signals read by the second line sensor which is moved for scanning by the scanning means in the sub-scanning direction based on the predetermined

scanning control conditions in accordance with 100%,  $2n$  times of 100%, or  $1/2n$  times of 100% ( $n$  being an integer) as said plurality of read magnifications preset as the read magnifications by the first and second line sensors, by means of a delay memory which delays the color signals by a predetermined number of lines;

selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the first and second line sensors to the document;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a first plurality of control conditions as first parameters including said plurality of read magnifications preset to the first line sensor and the scanning speed of the carriage in accordance with said plurality of read magnifications;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a second plurality of control conditions as second parameters including said plurality of read magnifications preset to the second line sensor and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second line sensors with said plurality of read magnifications, the alignment of the color signals every line and said first plurality of control conditions as standards; and

at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the monochrome and color signals read by the first and second line sensors at any one of said plurality of read magnifications preset based on: said first plurality of control conditions as the first parameters including said plurality of read magnifications preset to the first line sensor and the scanning speed of the carriage in accordance with said plurality of read magnifications; and said second plurality of control conditions as the second parameters including said plurality of read magnifications preset to the second line sensor and the scanning speed of the carriage in accordance with the ratio of the light-receiving sensitivities of the first and second line sensors with said plurality of read magnifications, the alignment of the color signals every line and said first plurality of control conditions as standards, said first plurality of control conditions and said second plurality of

control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set as the predetermined scanning control conditions selected.

37. (New) A method for controlling an image-processing device provided with scanning means including a carriage which relatively moves reading means for reading color signals and an image of a document in a main scanning direction of the image to make the reading means scan the image in its sub-scanning direction at a predetermined speed, the method comprising:

by the scanning means, relatively moving the reading means and the image of the document to make the reading means scan the image of the document in the sub-scanning direction based on predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as a plurality of read magnifications preset as read magnifications by the reading means to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading means by changing the scanning speed of the carriage;

aligning every line color signals read by the reading means which is moved for scanning by the scanning means in the sub-scanning direction based on the predetermined scanning control conditions in accordance with 100%, 2n times of 100%, or 1/2n times of 100% (n being an integer) as said plurality of read magnifications preset as the read magnifications by the reading means, by means of a delay memory which delays the color signals by a predetermined line;

selecting the predetermined scanning control conditions so as to change the scanning speed of the carriage of the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the reading means to the document;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a plurality of control conditions as parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications and the alignment of the color signals every line; and

at least when set to a read magnification other than said plurality of read magnifications preset, performing an operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the color signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications and the alignment of the color signals every line, said plurality of control conditions being set in accordance with said plurality of preset read magnifications so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set as the predetermined scanning control conditions selected.

38. (New) A method for controlling an image-processing device provided with scanning means including a carriage which relatively moves reading means for reading signals and an image of a document in a main scanning direction of the image to make the reading means scan the image in its sub-scanning direction at a predetermined speed, the method comprising:

selecting predetermined scanning control conditions for relatively moving the reading means and the image of the document to make the reading means scan the image of the document in the sub-scanning direction by the scanning means in accordance with said plurality of read magnifications preset as the read magnifications by the reading means to the document, the predetermined scanning control conditions being set in accordance with said plurality of read magnifications preset so as to change magnifications of the image of the document in the sub-scanning direction by the reading means by changing the scanning speed of the carriage;

setting the predetermined scanning control conditions for changing the scanning speed of the carriage of the scanning means to a plurality of control conditions as parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications; and

at least when set to a read magnification other than said plurality of read magnifications preset, performing an enlargement operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications

preset to the sub-scanning direction in accordance with the signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage and being set as the predetermined scanning control conditions selected;

at least when set to a read magnification other than said plurality of read magnifications preset, performing a reduction operating process to compute image data having a corresponding read magnification other than said plurality of read magnifications preset to the sub-scanning direction in accordance with the signals read by the reading means at any one of said plurality of read magnifications preset based on said plurality of control conditions as the parameters including said plurality of read magnifications preset to the reading means and the scanning speed of the carriage in accordance with said plurality of read magnifications, said plurality of control conditions being set in accordance with said plurality of read magnifications preset so as to change the magnifications in the sub-scanning direction by changing the scanning speed of the carriage, and set as the predetermined scanning control conditions selected; and

adaptively changing the enlargement operating process and the reduction operating process in accordance with a corresponding read magnification other than said plurality of read magnifications preset.